Ithaca Gun

FIELD MAINTENANCE INSTRUCTIONS MODEL 37 and MODEL 87 PUMP ACTION SHOTGUN



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This manual has been prepared for the reader to facilitate repair and servicing of the Ithaca Model 37 and Model 37 Pump Action Shotguns.

The illustrations used represent a typical firearm and are not meant to apply to this firearm alone. The illustrations represent an older firearm to allow gunsmiths and armorers to repair older units as well as those of current manufacture and design.

The reader is cautioned to be aware of whether the lirearm to be serviced is a 2%" or 3" action. Each of these take several components that are different and could cause mailunctions if improperly mixed.

The illustration shows a firearm with a sling, Ithaca firearms are not provided with slings or swivels. These are dealer or consumar added options. They are illustrated here simply for reference.

Itheca Deerslayer (I's are free floating barrel shotguns. They are not provided with a drilled and tapped barrel (ug. As of the 1993 productions, a special sling stud mounting (ug was provided to allow for the mounting of a sling. Deerslayer II barrels are permanently mounted to the receiver. As a result, the barrel may not be removed for cleaning. Gunsmiths and armorers will need to adjust for this feature when disassembling and cleaning Deerslayer II's. All other disassembly instructions remain the same.

Figures 7.7 and 19.8 show the disassambly of the Spring Shell Stop with a screwdriver. All current production, and some past production firearms, use a locating pin configuration.

Figure 4.3 and 4.4 show the use of a screwdriver to remove the stock from the gen. All current manufacture, and some past manufacture, require a %, inch socket set. Some older production also may have required a % inch standard socket set. Unless your customer requires that you maintain the original condition of the linearm, we recommend that you standardize to the current %, inch socket.

Finally, figures 21, 22, 23 and 24 have been eliminated as they serve no current purpose. References to those figures should be ignored.

Should you have any further questions, please do not hesitate to contact us at:

Ithura Gun Connount, LLC

Ithaca Gun Company, LLC 891 Rte 34 B King Ferry, NY 13081

Telephone: (315) 364-7182 FAX: (315) 384-5134

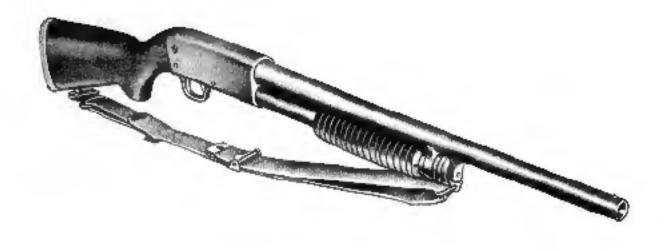


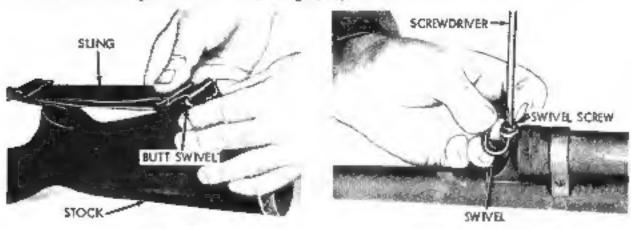
Figure 1. 12-gauge Ithaca shotgun Model 37 - right front view.



Figure 2. 12-gauge Ithaca shotgun Nodel 37 - left rear view.

Section II. REMOVAL AND DISASSEMBLY

3. Removal of sling and front ewivel (See figure 3,)



1. Remove kling.

Remove front swivel.

Figure 3. Removal of sling and front swivel.

4. Removal of the Stock Assembly (See figure 5.)

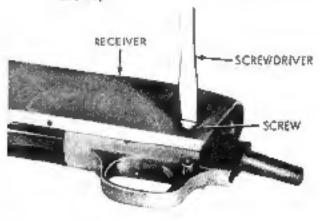


4. Remove stock western.

5. Remove stock from receiver.

Figure 4: Removal of stock assembly.

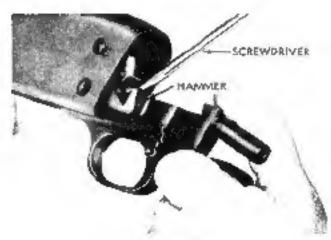
Removal of Trigger Plate Group (See figure 5.)



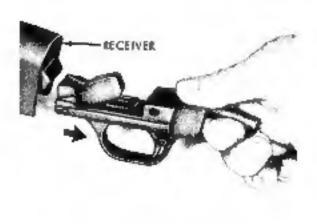
1. Remove trigger plate screw.



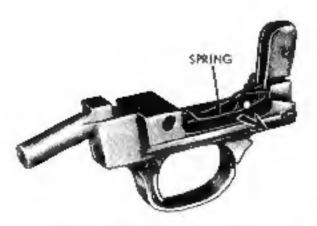
2. Pull trigger plate group to rear of receiver.



3. Compress hummer.



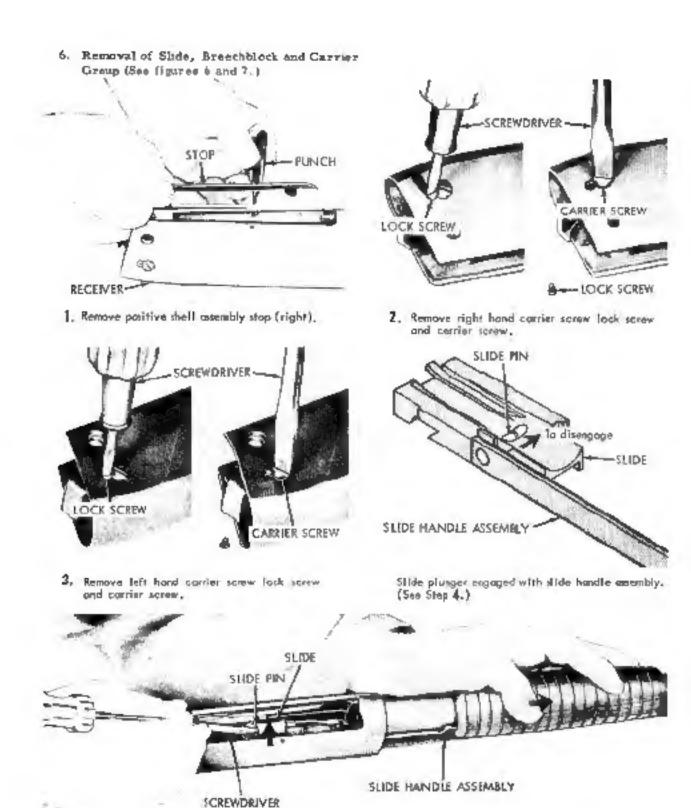
4. Remove tripper plote group.



5. Remove stide stop release spring (lop).

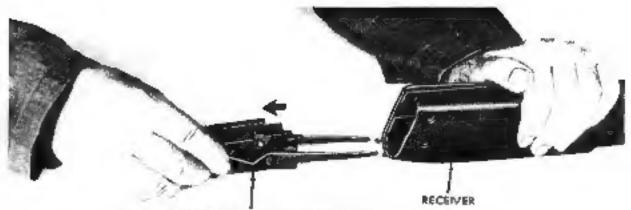
NOTE: SPRING TO BE REMOVED FOR REPLACEMENT ONLY

Figure 5. Removal of trigger plate group.



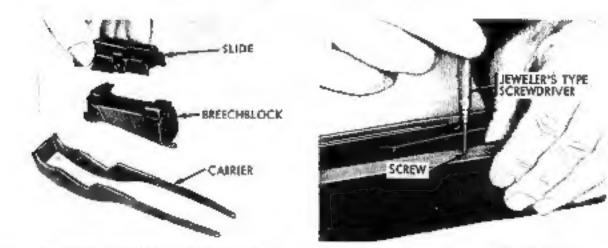
4. Compress slide pin releasing silde handle assembly.

Figure 6. Removal of slide, breechblock and carrier group.



SLIDE, BREECHSLOCK AND CARRIER GROUP

5. Remove stide, breechblock and carrier group.



4. Separare slide, breechblock and carrier group.

SPRING SHELL STOP

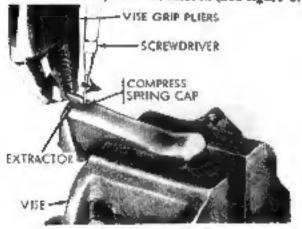


. Remove spring that) stop (laft).

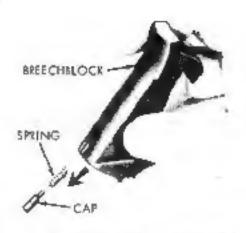
. Lemove spring shell stop spring.

Figure 7. Removal of slide, breechblock and carrier group (Continued).

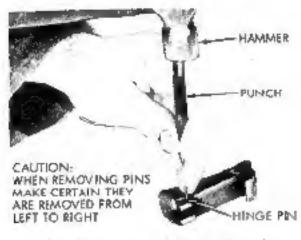
7. Disassembly of Breechblock (See figure 8.)



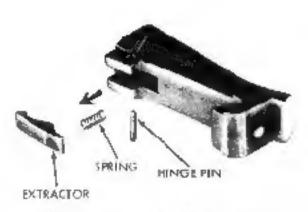
]. Remove positive extractor (top).



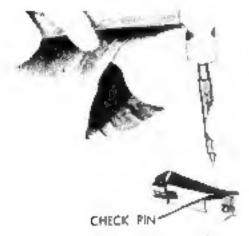
Remove positive extractor spring cap and positive extractor spring.



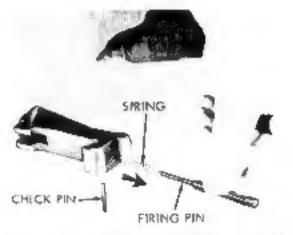
3. Remove autractor hinge pin (bottom).



 Remove bottom assembly extractor and extractor spring.



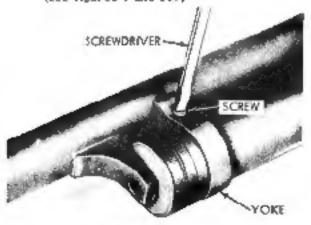
5. Remove firing pin check pin.



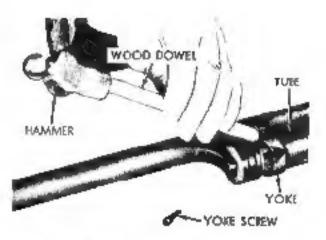
6. Remove firing pin and firing pin spring.

Figure 8. Disassembly of breechblock.

 Disassambly of Barrel and Receiver Group (See figures 9 and 10.)



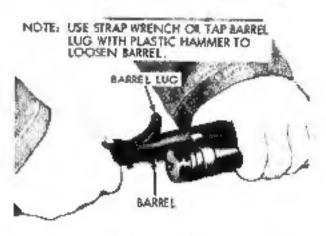
1. Remove yake screw,



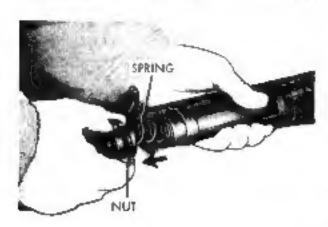
2. Drive yoks to rear over magazine tube.



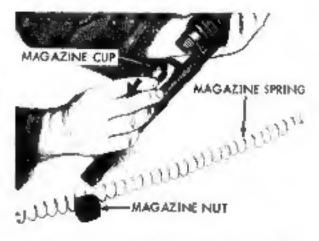
\$. Turn magazine nut clockwise as for as possible.



4. Rotate borrel counterclockwise 70-degrees,

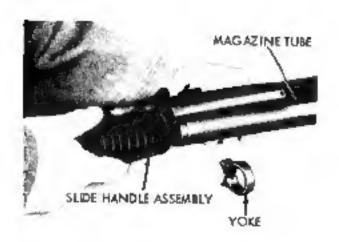


5. Remove megazine nut and magazine spring,



B. Till muzzle and of barrel down and slide magazine spring cup from magazine tube.

Figure 9. Disessembly of barrel and receiver group.



Remove stide headle assembly.

Figure 10. Disessembly of barrel and receiver group (Continued).

NOTE: IEMOVAL OF YOKE AND SLIDE HANDLE ASSEMBLY IS REQUIRED FOR CLEANING PURPOSES ONLY.

NOTE: NO FURTHER DISASSEMBLY IS REQUIRED.

Section IV. CLEANING, INSPECTION, AND REPAIR.

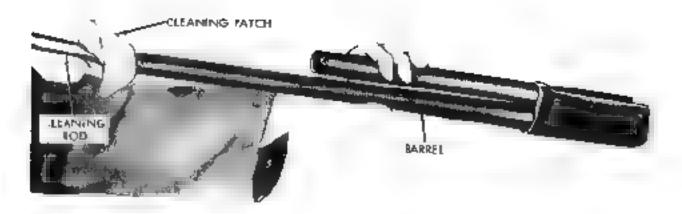
9. Cleaning

with CR, rifle bere cleaner applied to a cloth lubricating oil. Special attention should be patch (fig. 11) assembled to a cleaning rod. Clean slide and magazine tube. Thoroughly dry and lightly oil with PL special, inbricating oil.

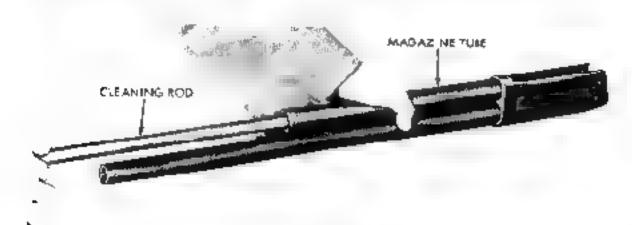
b. Clean all mot al parts by wiping with a clean rag slightly moistened with CR, rifle bore LAW, lubricating oil.

cleaner to looses burst powder and foreign matter. Wipe parts clean and dry, Oil lightly usa. The harrel should be thoroughly cleaned ing a rag or brush moistened with PL special, given to the items in figure 12.

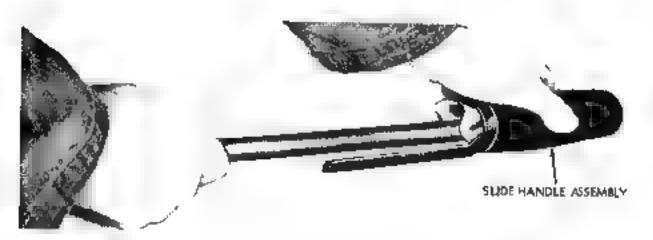
> Gaution: In very cold climates, oiling should be reduced to a minimum. Only surfaces showing signs of wear should be lightly oiled, using



1 Geoming barrel born

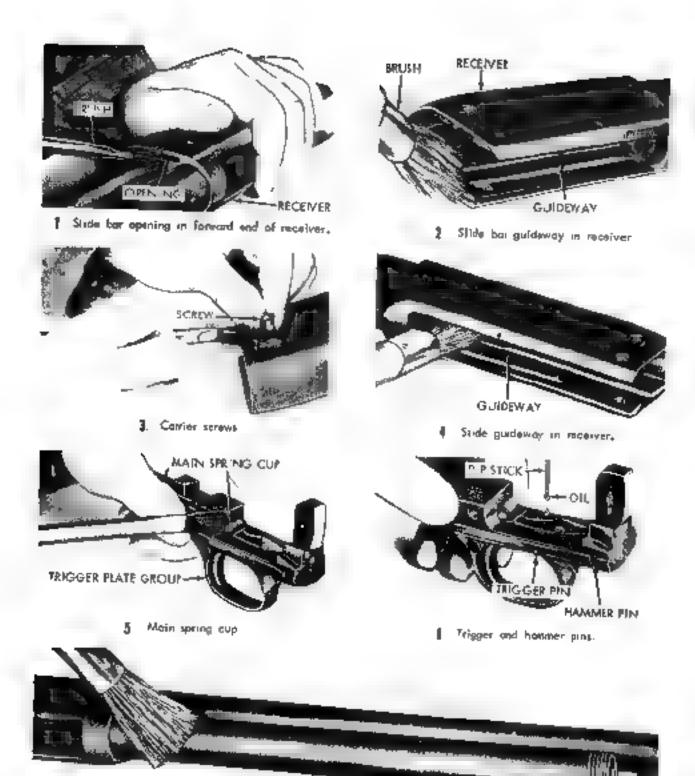


2. Cleaning magazine tube



3. Octobing stide

Figure 1. Cleaning barrel bore, magazine tube and side assembly



Outer surface of magazine tube, bearing surface of slide handle.

MAGAZINE TUBE

Figure 12 Gleaning and submiction points

e Wooden components which includes the stock and slide handle, shall be digated by wiping with a slightly oxied rag, then polished with a clean dry cloth. Apply a right cout of larged on and rub into wood with herical hand (fig. 13) This will help preserve the wood.

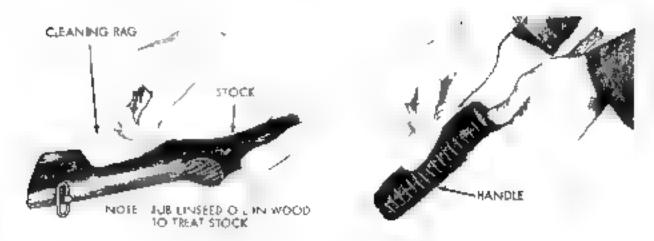


Figure 3 Cleaning and treating stock and handle

0. Inspection

- Impect stock bolt (2, fig. 21) for damaged directed
- b. Inspect positive extractor (1 fig. 22) and bottom assembly extractor (5 fig. 22) for wear and damage.
- c. Inspect firing pin (4, fig 22) for broken or best point.
- ♣ Inspect curries server (7. fig. 21) carvier locking screw (6, fig. 21) and spring shell stop screw (2, fig. 24) for damaged (hreads or vear

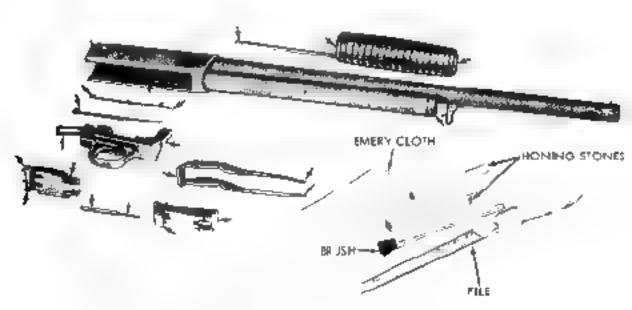
- e. Examine for broken or wisk firing pin spring (9, fig. 22), apring shell stop spring (4, fig. 23), and elide stop recess spring (\$A reg. 2)
- f. Inspect for broken or cracked slock as sembly a fig. 2...
- g. Inspect positive shell assembly stop 1 (i.g. 23) and spring shell stop (3, fig. 23) for wear or damage.
- Inspect for worn or damaged ross swive;
 assembly (5 fig. 23)

Inspect camming surfaces for bure

j. Inspect parter bore for runt or corros on

11, Repair

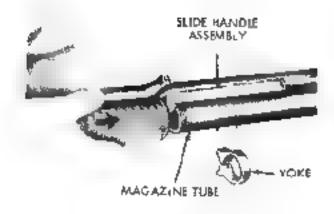
- a. Remove rust from barrel bore, using a rag mointened with GR, rifle bore cleanur (fig. 1.) Use stee, wool of secondary
- Remove bure on comming surfaces, using a fine grained stone (fig. 4)



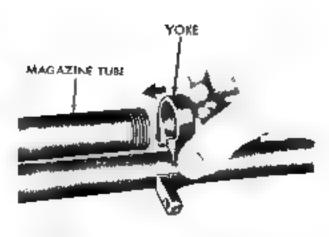
NOTE ARROWS SHOWN ABOVE INDICATE BURRED AREAS.
USE NAMED ITEMS TO REMOVE BURS

Figure 14. Remove) of burs from camming surfaces

- c Replace worm or damaged front swivel assembly (5 fig 23) positive shell assembly stop (4, fig. 23), and spring shell stop (3, fig 23).
- d Replace broken or cracked stock assembly (1, fig. 2).
- e Replace broken or weak firing pin spring (9, fig. 22), shell stop spring (4, fig. 23), and sade stop release spring 5A fig. 21).
- f Replace spring shed stop screw (2, fig 23) carrier looking screw (6, fig 24) and carrier screw (7, fig. 21), if work or threads are damaged.
- g. Replace Bring pin 8. fig. 22, if brokes or demaged.
- b. Replace bottom assembly extractor (5, fig. 22) and positive extractor (2, fig. 22), if worn or damaged
- 2 Replace stock bolt (2 fig. 2), if threads are damaged



I Install stide handle assembly.



2, Install years.



3. Install magazīne spring sup.



NOTE WHEN INSTALLING MAGAZINE NUT MAKE CERTAIN NUT IS TURNED CLOCKWISE AS FALLAS POSSIBLE

fratell magazine spring and magazine nut.



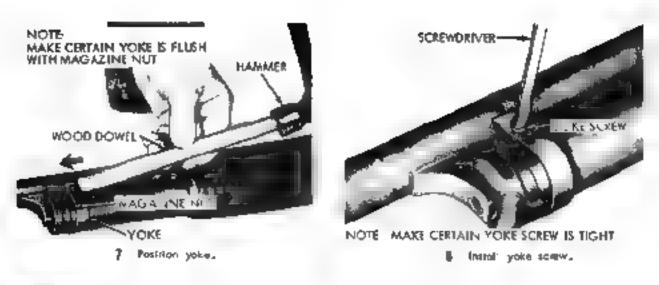
5 Rotote borrel 90-degrees,

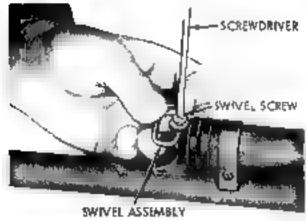


,_NOTE TURN MAGAZINE NUT COUNTER-CLOCKWISE TO LOCK BARREL (UG TO MAGAZINE NUT

. Fortilen magazine aut.

Figure 15 Assembly of barra' and receiver #7. Replace and tighten yoke screw

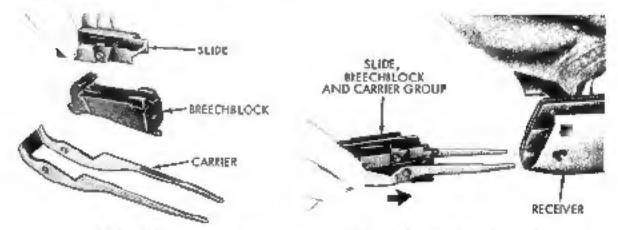




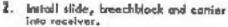
1 install swivel assembly.

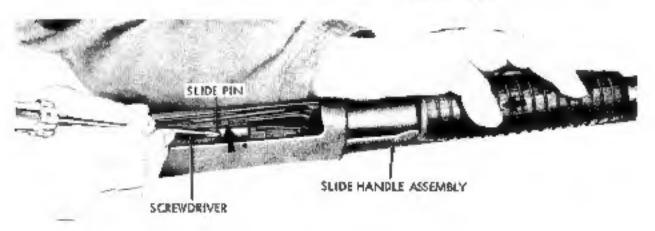
Figure 16 Assembly of barrel and receiver (Continued)

 Installation of slide, breechblock, carrier and trigger plate group (See figures 12 and 19.)

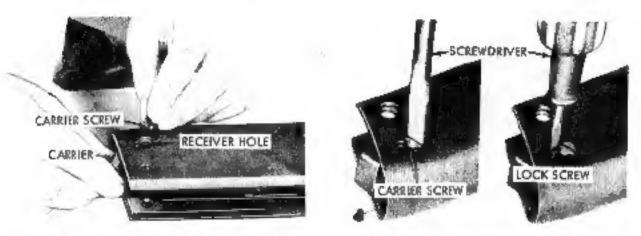


1. Assemble stide, breechblock and carrier.





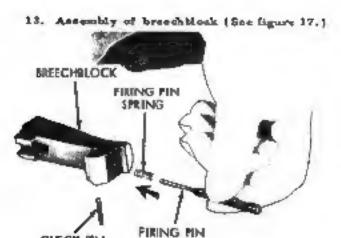
Connect slide hardle assembly.



4. Aline carrier screw holes with holes in receiver.

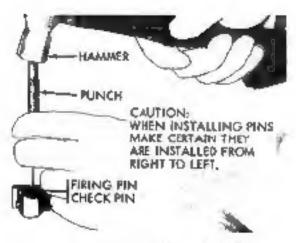
5. Install left hand carrier screw and lock screw.

Figure 18. Installation of slide, breechblock, carrier and trigger plate group.

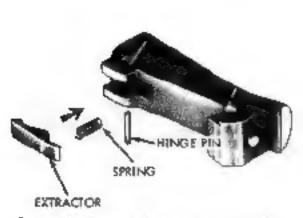


1. Install firing pin spring and firing pin.

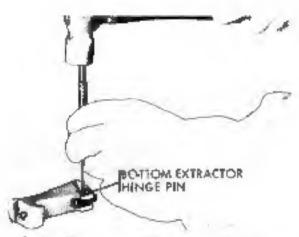
CHECK PIN



2. Install firing pin check pin.



Install bottom assembly extractor spring and bettom estembly extractor.



4. Install bottom assembly extractor hinge pin.

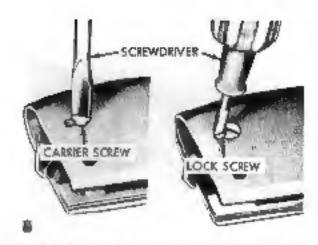


 Install positive extractor spring and pesitive extractor spring cap.

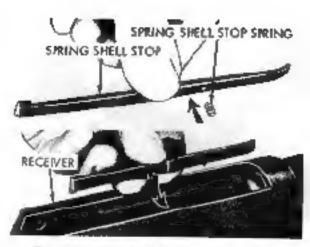


install positive extractor (top).

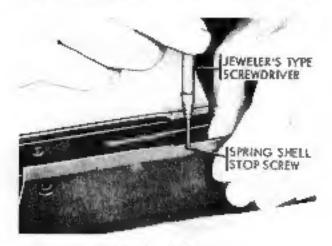
Figure 17. Assembly of breechblock.



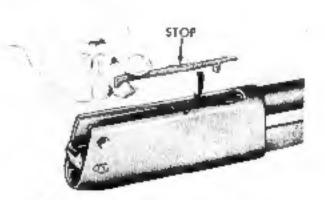
6. Install right hand carrier serew and lock screw.



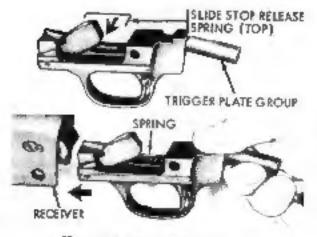
7. Install spring shell stop (left) and spring.



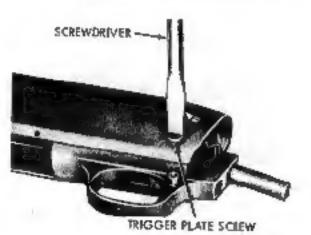
8. Install spring shell stop screw.



9. Install positive shell assembly stop (right).



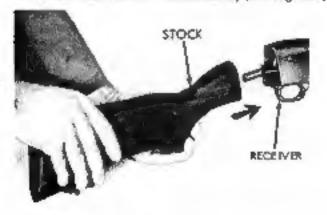
10 . Install trigger plate group.



11. Install trigger plate screw.

Figure 19. Installation of sitie, breechblock, carrier and trigger plate group (Continued).

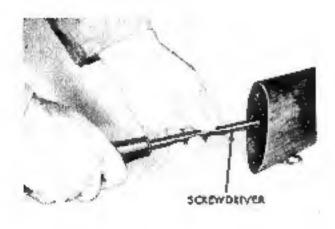
15. Justallation of stock assembly (See fig. 20.)



STOCK BOLT WASHERS

1. Install stock to receiver.

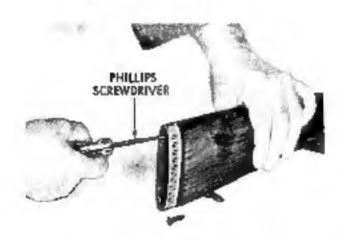




BUTT PLATE SCREWS

3. Install stock bolt.

4. Install butt plate.



5. Install butt plate screws,

Figure 20. Installation of stock assembly.